

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

1. (Currently Amended) A control system, comprising:
 - an automation device operably connected to a network;
 - a network device operably connected to the network; and,
 - a customized application program for the automation device stored in the network device, wherein the customized application program controls the automation device, wherein the customized application program is selected by the network device in response to an application program request message received at the network device and sent from the automation device[[,]] as part of a bootstrap protocol, and wherein the customized application program is downloaded to the automation device at a boot time of the automation device.
2. (Previously Presented) The control system of claim 1 wherein the customized application program comprises an executive code and a user code.
3. (Previously Presented) The control system of claim 2 wherein the executive code is selected in response to the user code selected.
4. (Original) The control system of claim 1 wherein the automation device is a programmable logic controller.
5. (Original) The control system of claim 1 wherein the network device is a server.
6. (Previously Presented) The control system of claim 5 wherein the server has a TCP/IP protocol stack.
7. (Original) The control system of claim 1 wherein the network is Internet.
8. (Original) The control system of claim 1 wherein the network is Ethernet.
9. (Original) The control system of claim 1 wherein the network is Profibus.
10. (Original) The control system of claim 1 wherein the network is ControlNet.

11. (Original) The control system of claim 1 wherein the network is Modbus+.

12. (Currently Amended) A method of operating a control system on a network comprising the steps of:

providing a network device for storing a customized application program to be executed on an automation device;

transmitting a message for requesting a network address for the automation device by the automation device;

transmitting a message by the automation device for requesting the customized application program for the automation device[[,]] as part of a bootstrap protocol;

selecting the customized application program in response to the message for requesting the customized application program;

transmitting the customized application program to the automation device; and,

installing the customized application program on the automation device at a boot time of the automation device.

13. (Previously Presented) The method of claim 12 further comprising the step of executing the customized application program on the automation device.

14. (Previously Presented) The method of claim 12 wherein the step of selecting the customized application program in response to the request for the customized application program comprises the steps of:

identifying the message for requesting the customized_application program;

selecting a user application program in response to the message requesting the customized application program; and,

selecting an executive program in response to the user application program selected.

15. (Previously Presented) The method of claim 12, wherein the customized application program further comprises:

an executive program code for the automation device; and,

a user program code for the automation device, the user program is selected in response to the message requesting the customized application program.

16. (Previously Presented) The method of claim 15 wherein the executive program code is customized in response to the message requesting the customized application program to meet the minimum requirements for executing the customized application program.

17. (Currently Amended) A network control system, comprising:

means for operably connecting a network device to the network control system, the network device stores a customized application program for controlling an automation device;

means for transmitting a message requesting a network address by the automation device;

means for transmitting a message by the automation device requesting the customized application program as part of a bootstrap protocol;

means for selecting the customized application program in response to the message requesting the customized application program;

means for transmitting the a customized application program to the automation device;

and,

means for installing the customized application program at a boot time of the automation device.

18. (Canceled)

19. (Original) The network control system of claim 17 wherein the automation device is a controller.

20. (Original) The network control system of claim 17 wherein the network device is a server.

21. (Currently Amended) A method of operating a control system on a network comprising the steps of:

providing a network device for storing a customized application program to be executed

on an automation device;

requesting a network address for the automation device by the automation device;

requesting the customized application program ~~response~~ by the automation device as part of a bootstrap protocol;

selecting the customized application program ~~response~~;

transmitting the customized application program to the automation device; and,

installing the customized application program on the automation device at a boot time of the automation device.

22. (Canceled)

23. (Currently Amended) The method of claim ~~22~~ 21 wherein further comprises:

selecting a user code for the customized application program; and,

selecting an executive code for the customized application program.